

# Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

County: <u>Campbell</u>	Named Waterbody: <u>UT to Adams Hb</u>	Date/Time: <u>8/7/14 1:30 pm</u>
Assessors/Affiliation: <u>Tim K. Stone, Bill Ferrell, Bill Penley</u>	Project ID :	
Site Name/Description: <u>Adams Hollow Deep Mine</u>		
Site Location: <u>Adams Hollow, Stinking Creek</u>		
USGS quad: <u>Indell</u>	HUC (12 digit):	Lat/Long: <u>36.46786/84.19309</u>
Previous Rainfall (7-days) :		
Precipitation this Season vs. Normal :    very wet    wet <u>average</u> dry    drought    unknown		
Source of recent & seasonal precip data : <u>TDEC</u>		
Watershed Size :	Photos: <u>Y</u> or N (circle) Number : <u>4</u>	
Soil Type(s) / Geology : <u>Disturbed soils</u>	Source:	
Surrounding Land Use : <u>AML, roads, utilities, residential, forest</u>		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) :		
<div style="display: flex; justify-content: space-around;"> <span><u>Severe</u></span> <span>Moderate</span> <span>Slight</span> <span>Absent</span> </div>		

## Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<u>X</u>	WWC
2. Defined bed and bank absent, dominated by upland vegetation / grass	<u>X</u>	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	<u>X</u>	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	<u>X</u>	WWC
5. Presence of multiple populations of obligate lotic organisms with $\geq 2$ month aquatic phase	<u>X</u>	Stream
6. Presence of fish (except <i>Gambusia</i> )	<u>X</u>	Stream
7. Presence of naturally occurring ground water table connection	<u>X</u>	Stream
8. Flowing water in channel and 7 days since last precipitation in local watershed	<u>X</u>	Stream
9. Evidence watercourse has been used as a supply of drinking water	<u>X</u>	Stream

**NOTE :** If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4

Overall Hydrologic Determination = Not a WWC

Secondary Indicator Score (if applicable) = 23

Justification / Notes :

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## Secondary Field Indicator Evaluation

<b>A. Geomorphology</b> (Subtotal = <u>12.5</u> )				
	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	2	<u>(3)</u>
2. Sinuous channel	<u>(0)</u>	1	2	3
3. In-channel structure: riffle-pool sequences	0	1	<u>(2)</u>	3
4. Sorting of soil textures or other substrate	0	1	<u>(2)</u>	3
5. Active/relic floodplain	0	<u>(1)</u>	2	3
6. Depositional bars or benches	<u>(0)</u>	1	2	3
7. Braided channel	<u>(0)</u>	1	2	3
8. Recent alluvial deposits	<u>(0)</u>	0.5	1	1.5
9. Natural levees	<u>(0)</u>	1	2	3
10. Headcuts	<u>(0)</u>	1	2	3
11. Grade controls	0	<u>(0.5)</u>	1	1.5
12. Natural valley or drainageway	0	0.5	1	<u>(1.5)</u>
13. At least second order channel on existing USGS or NRCS map	No = 0		<u>(Yes = 3)</u>	

<b>B. Hydrology</b> (Subtotal = <u>2</u> )				
	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	0	<u>(1)</u>	2	3
15. Water in channel and >48 hours since sig. rain <i>N/A</i>	0	1	2	3
16. Leaf litter in channel (January – September)	1.5	<u>(1)</u>	0.5	0
17. Sediment on plants or on debris	0	<u>(0.5)</u>	1	1.5
18. Organic debris lines or piles (wrack lines)	<u>(0)</u>	0.5	1	1.5
19. Hydric soils in stream bed or sides of channel	<u>(No = 0)</u>		Yes = 1.5	

<b>C. Biology</b> (Subtotal = <u>8.5</u> )				
	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel <sup>1</sup>	3	<u>(2)</u>	1	0
21. Rooted plants in channel <sup>1</sup>	<u>(3)</u>	2	1	0
22. Crayfish in stream (exclude in floodplain)	0	0.5	<u>(1)</u>	1.5
23. Bivalves/mussels	<u>(0)</u>	1	2	3
24. Amphibians	0	0.5	<u>(1)</u>	1.5
25. Macroinvertebrates (record type & abundance) *	0	<u>(1)</u>	2	3
26. Filamentous algae; periphyton	<u>(0)</u>	1	2	3
27. Iron oxidizing bacteria/fungus	0	<u>(0.5)</u>	1	1.5
28. Wetland plants in channel <sup>2</sup>	<u>(0)</u>	0.5	1	2

<sup>1</sup> Focus is on the presence of upland plants.

<sup>2</sup> Focus is on the presence of aquatic or wetland plants.

Total Points = 2.3

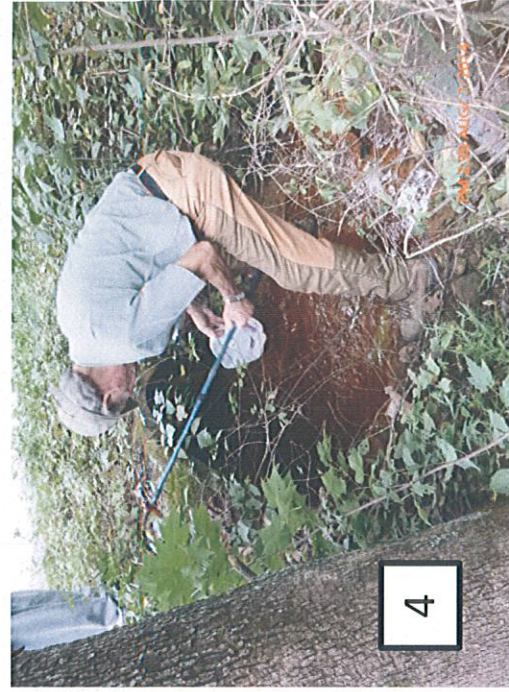
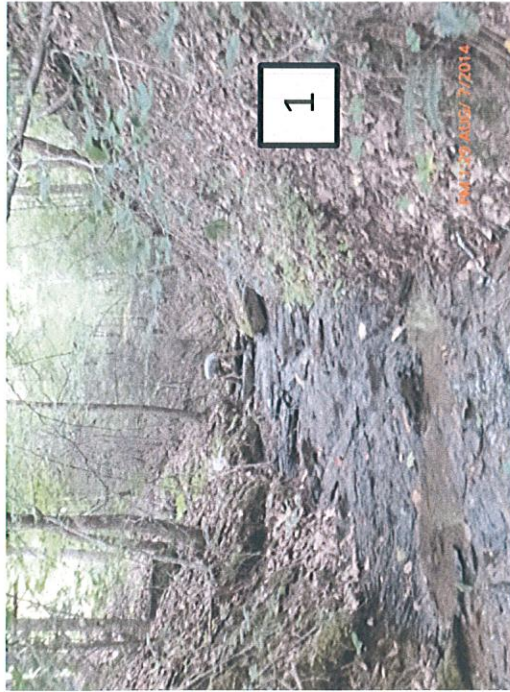
Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes : \* found case builder easily

Majority of stream segment examined is enclosed in RCP,  
lower reach is apparently affected by AMD.

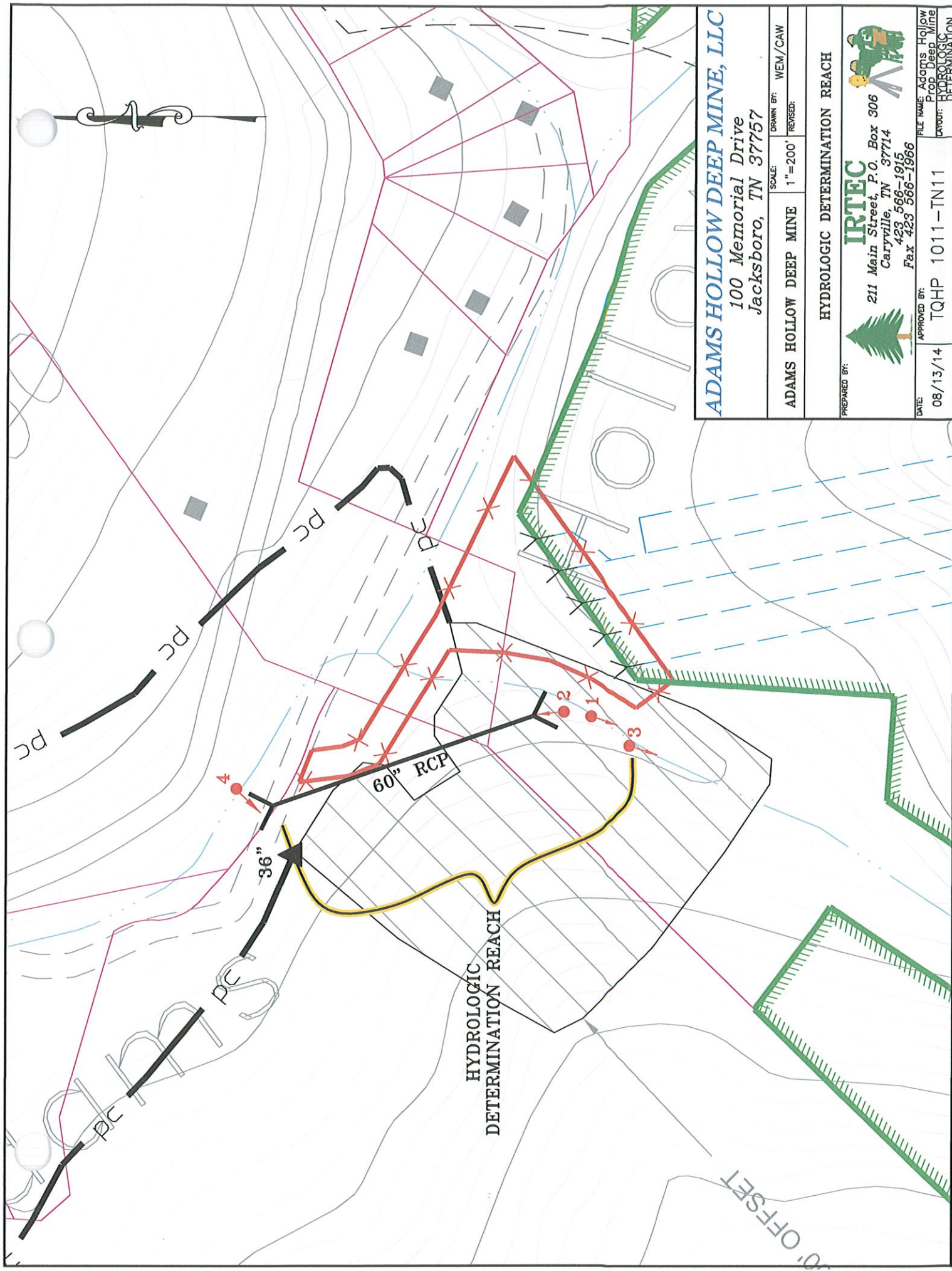


ADAMS HOLLOW DEEP MINE  
HYDROLOGIC DETERMINATION REACH



REFER TO HYDROLOGIC DETERMINATION REACH MAP





**ADAMS HOLLOW DEEP MINE, LLC**  
100 Memorial Drive  
Jacksboro, TN 37757

SCALE:	DRAWN BY:	WEM/CAW
ADAMS HOLLOW DEEP MINE		REVISED:

1"=200'

PREPARED BY:

**IRTEC**  
211 Main Street, P.O. Box 306  
Caryville, TN 37714  
423 566-1915  
Fax 423 566-1966

FILE NAME: Adams Hollow  
Prop Deep Mine  
CONTENT: HYDROLOGIC  
DETERMINATION

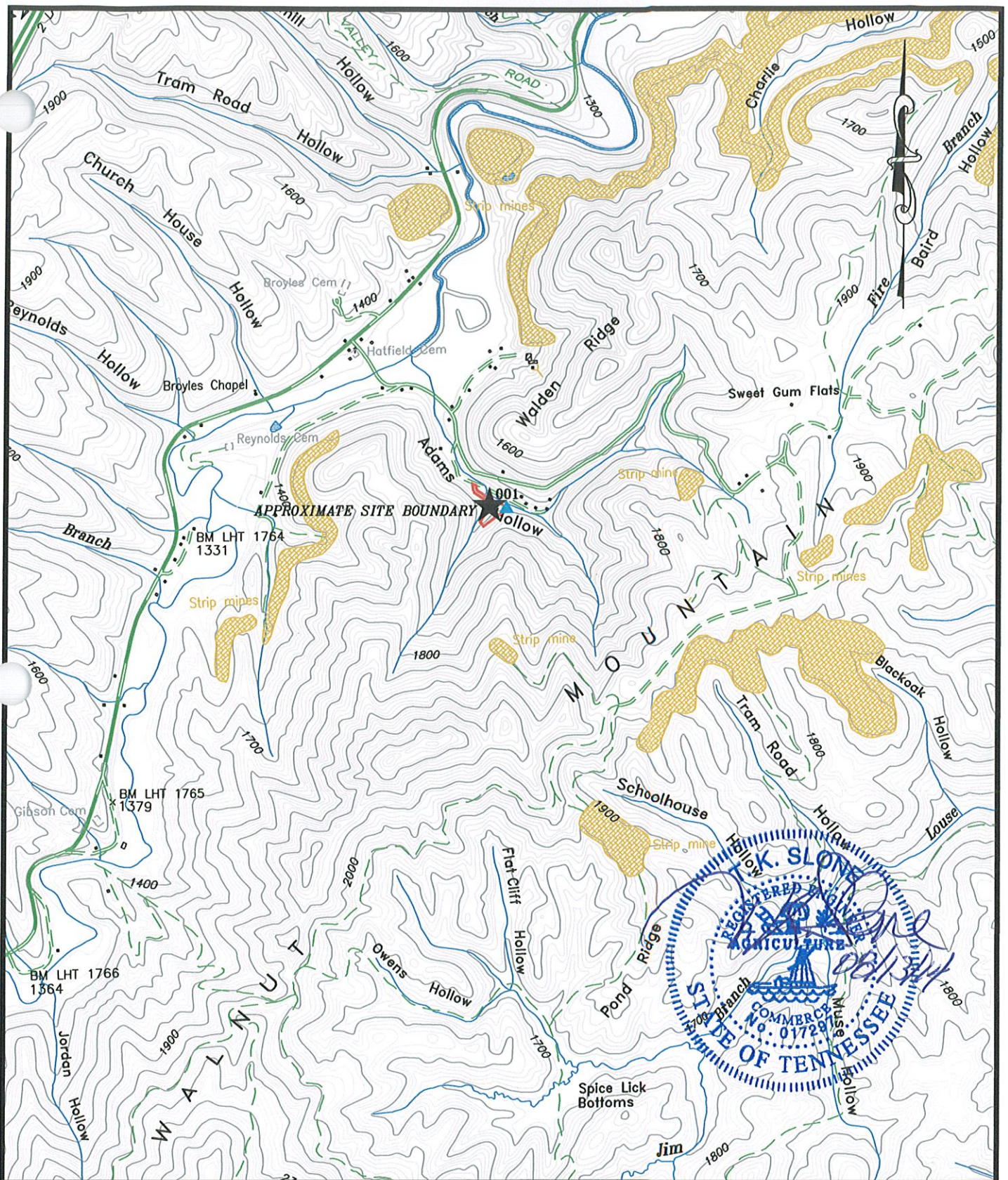
DATE: 08/13/14

APPROVED BY: TQHP 1011-TN11

**HYDROLOGIC DETERMINATION REACH**

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# **GENERAL LOCATION MAP (1)**

SCALE: 1"=2000'

IVYDELL QUADRANGLE (136-NW - NAD 83)

PREPARED BY:

**IRTEC**

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Caryville, TN 37714  
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Fax 423 566-1966



**ADAMS HOLLOW DEEP MINE, LLC**

100 MEMORIAL DRIVE  
JACKSBORO, TENNESSEE 37757

**ADAMS HOLLOW DEEP MINE**

**CAMPBELL COUNTY**

**LAT: 36° 28' 07"**

**LONG: 84° 11' 33"**

★ Discharge Monitoring Points\*

PERMITTED ACREAGE: \*

DISTURBED ACREAGE: \*

\*Not Yet Fully Determined

FILE: AH-GLM

DATE: 08/13/14

REVISED: N/A

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